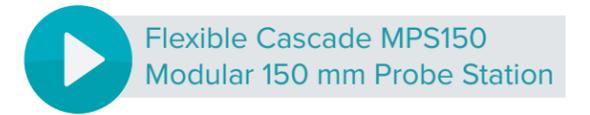


# Cascade MPS150

A Modular 150 mm Manual Probe System Designed for Upgradability



## Wide selection of microscope movements

- Manual up to 150 mm x 100 mm
- High-resolution manual 50 mm x 50 mm
- Motorized 50 mm x 50 mm

## Application-specific 150 mm chucks

- Coaxial, triaxial and RF/mmW with AUX sites
- Non-thermal or thermal up to 300°C
- Support single chip down to 3 mm x 5 mm
- $< \pm 3 \mu\text{m}$  chuck planarity

## Dedicated probe platens

- Rigid and stable design
- mmW platen for RF, mmW, sub-THz, load-pull and RF noise applications
- Cooled platen for chucks up to 300°C

## Platen movement

- 40 mm travel range for maximum flexibility
- Quick and easy reconfiguration from wafer to package board application

## Unique 200 $\mu\text{m}$ platen contact/separation stroke

- $< \pm 1 \mu\text{m}$  accuracy for repeatable contact quality
- Convenient and easy to use

## Chuck theta rotation

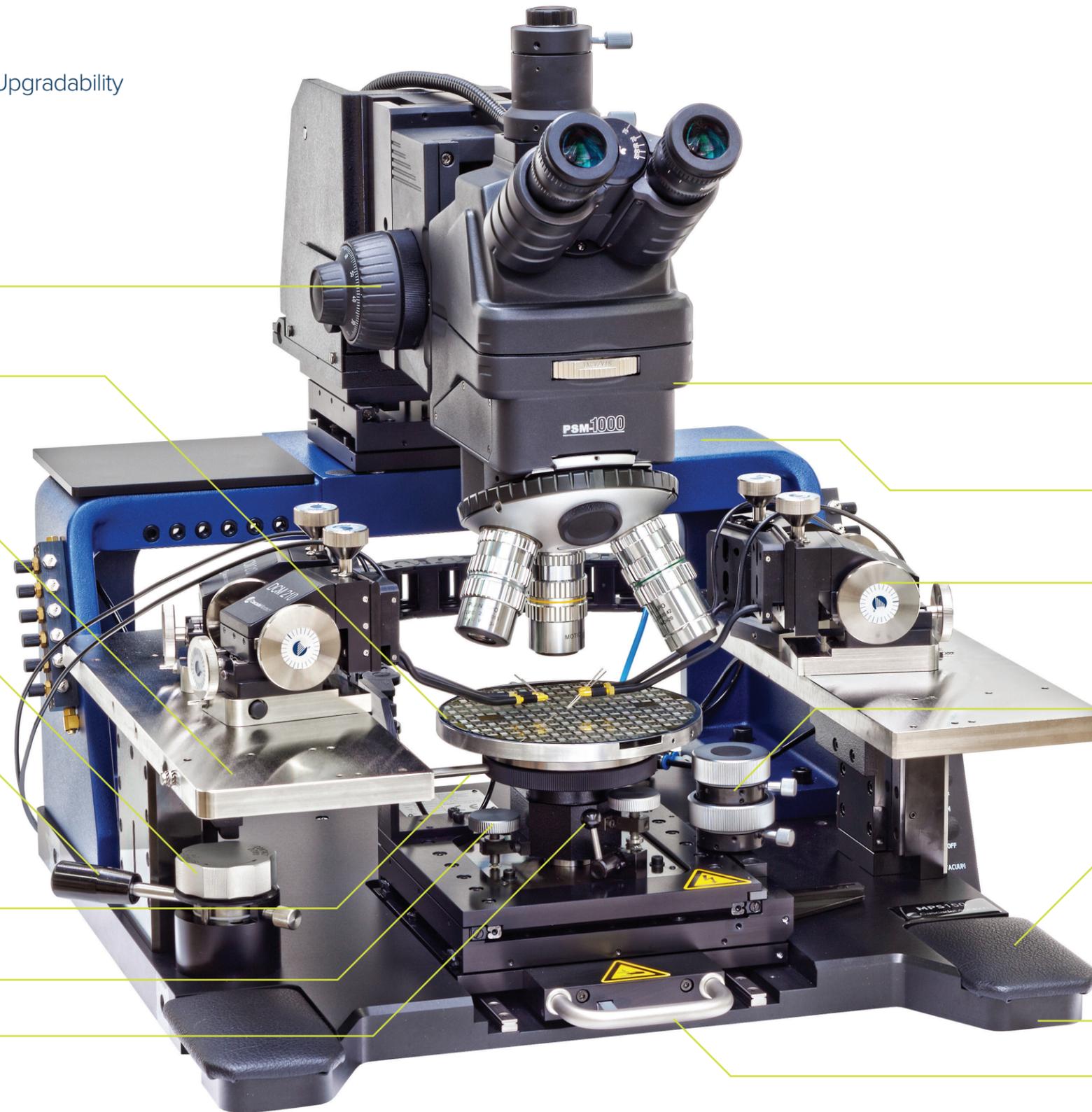
- 360° for easy alignment
- Fine adjustment for accurate probe-to-pad alignment on small pads

## Precision chuck Z movement

- 10 mm range for precise wafer height adjustment

## Load stroke up to 3 mm

- Chuck stroke for convenient and safe wafer loading



## Variety of optics options

- eVue™ unique digital microscopes for high-magnification with large FOV
- Stereo and high resolution, camera ready
- Laser capability

## Microscope mounting solutions

- Solid bridge for maximum microscope stability and low drift
- Alternate boom stand for stereo microscope

## Positioners and probe cards

- Supports all Cascade Microtech positioners with positioning capability down to submicron levels
- Simultaneous use of probe card and positioners
- Dedicated probe arms for accurate I-V, pulsed I-V, C-V, RF, mmW, HV and HC measurements

## Chuck X/Y movement

- Precise X/Y positioning with  $< 5 \mu\text{m}$  resolution
- Coax knobs for convenient single-handed operation
- Independent axis locks for easy linear navigation
- Individual axis friction adjustment for precision control

## Compact base with arm rest

- Small 490 mm x 490 mm footprint
- Convenient operation

## Vibration-isolation solution

- Ensured contact and minimized pad damage

## Chuck stage with 90 mm roll out

- Quick, risk-free and convenient wafer loading